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1431

(54) Title: METHOD AND MATERIALS FOR HYDRAULIC FRACTURING OF WELLS

(57) Abstract: Hydraulic fracturing of wells by injecting a degradable polymer phase as a fracturing fluid is provided. Composition and degree of polymerization of the degradable polymer and the selection of additives may be varied to adjust the viscosity, degradation time and other properties of the fracturing fluid. Viscous degradable fluid or pellets of degradable polymer may be placed in a wellbore as an internal phase in a low viscosity carrier fluid. A polymer-continuous liquid phase may be formed at a selected location in the wellbore, usually near perforations, before the polymer phase is pressured into a formation to form a hydraulic fracture.

### INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : E21B 43/26; C09K 3/00			
US CL : 166/308; 507/209, 219, 221, 922, 924			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
EAST			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.
X	US 5,699,860 A (GRUNDMANN) 23 December 19		24, 25, 30-32
^	column 4, lines 22-27.	os. (as.is.issy), champie i ala	24, 25, 30 32
x	US 5,439,059 A (HARRIS et al) 08 August 1995 (0	8.08.1995), column 6, lines 39-45.	1, 2, 4, 5, 7, 9, 11, 16,
	17, 21-23		
X	US 4, 417, 989 A (HUNTER) 29 November 1983 (29.11.1983), column 6, lines 36-47. 24, 25, 30		
Α	US 4.715.967 A (BELLIS et al) 29 December 1987 (29.12.1987) see claims.		
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Further	documents are listed in the continuation of Box C.	See patent family annex.	1
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"A" document	defining the general state of the art which is not considered to be	principle or theory underlying the inve	
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priority date claimed			
Date of the actual completion of the international search  Date of mailing of the international search report			
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